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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
09/402,674	10/08/1999	JARI KOISTINEN	365-428PCT	6270
7590 11/22/2004			EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EINSMANN, MARGARET V	
FALLS CHURCH, VA 220400747			ART UNIT	PAPER NUMBER
			1751	

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/402,674	KOISTINEN ET AL.			
		Examiner	Art Unit			
		Margaret Einsmann	1751			
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet wit	th the correspondence address			
THE - External control	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reploure to reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a re- ly within the statutory minimum of thirty will apply and will expire SIX (6) MONT a. cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35.U.S.C. 8.133)			
Status						
1)[Responsive to communication(s) filed on 13 A	<u>ugust 2004</u> .				
2a)[☐		action is non-final.				
3)[
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) <u>17 and 19-26</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
6)□	Claim(s) <u>17, 19-26</u> is/are rejected.					
7)	Claim(s) is/are objected to.	•				
8)[Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	epted or b) objected to b	y the Examiner.			
	Applicant may not request that any objection to the		•			
	Replacement drawing sheet(s) including the correct		• •			
11)	The oath or declaration is objected to by the Ex		` · ·			
Priority ι	under 35 U.S.C. § 119	. •				
	Acknowledgment is made of a claim for foreign	priority under 25 H S C S	110(a) (d) or (f)			
	☐ All b)☐ Some * c)☐ None of:	priority under 35 0.5.0. 9	119(a)-(d) or (1).			
۵,,	1. ☐ Certified copies of the priority documents	s have been received				
	2. Certified copies of the priority documents		valication No.			
	3. Copies of the certified copies of the prior					
	application from the International Bureau		eceived in this National Stage			
* 5	See the attached detailed Office action for a list	• • •	eceived			
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Attachmen		🗖				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) /Mail Date			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ormal Patent Application (PTO-152)			
Pape	r No(s)/Mail Date	6) 🔲 Other:				

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/15/04 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17, 19-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakahara et al., US 5,374,366.

Applicant's amendment filed 12/15/03 has been carefully considered but is not persuasive to moot the rejection of claims 17,19-26 over Nakahara et al. as set forth in the previous office actions. Applicant states that it would not have been obvious to replace the NPG in example 10 of Nakahara with other esters or to use more than 50% HPHP as the polyol in the esters as is claimed. Applicant and Declarant refer to Table 4 in the specification which shows that as the proportion of HPHP is increased the solubility of the oil in fluorinated refrigerants is increased. Declarant points to esters comprising HPHP and BEPD which are set forth in the table and explains that as the

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proportion of HPHP in the HPHP/BEPD ester mixture is increased the solubility in fluorinated refrigerants is increased. Applicant is referred to claim 17, the independent claim now pending. Note that the mixture in the table is now claimed in the instant application. However, mixtures of HPHP with several other polyols is also claimed. Claim 17 also includes mixtures wherein the ratio of HPHP with BEPD is 5:95-99:1. The Table is not a proper comparison for the following reasons.

- The mixtures in the examples all contain at least 50% HPHP as claimed. To
 overcome the rejection, the comparison should be with mixtures containing 50 mole %
 HPHP against mixtures containing more than 50%.
- Applicant has not compared the closest art, Nakahara example 10.
- 3. The comparison should contain mixtures representative of the scope of the claimed subject matter so that there is probative value in the comparisons.
- 4. While applicant claims that mixtures containing at least 50 mol percent of HPHP, claim 17 also includes mixtures wherein the ratio of HPHP with BEPD is 5:95-99:1. Accordingly that table cannot be used as evidence to support the claims which include mixed esters formed from at least 50 mole % HPHP mlxed with trimethylol propane, trimethylol ethane, pentaerythritol or 4-trimethylpentadiol, and with many carboxylic acids, as well as mixtures containing BEPD/HPHP in the ratio of 5:95 –99:1.

Regarding the discussion of the superiority of commercial HPHP over the HPHP used in Nakahara, the claims are inclusive of both types of HPHP. Accordingly the rejection is maintained.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Margaret Einsmann whose telephone number is 571-272-1314. The examiner can normally be reached on 7:00 AM -4:30 PM M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 15, 2004

Margaret Einsmann **Primary Examiner**

Margaret Unsman

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